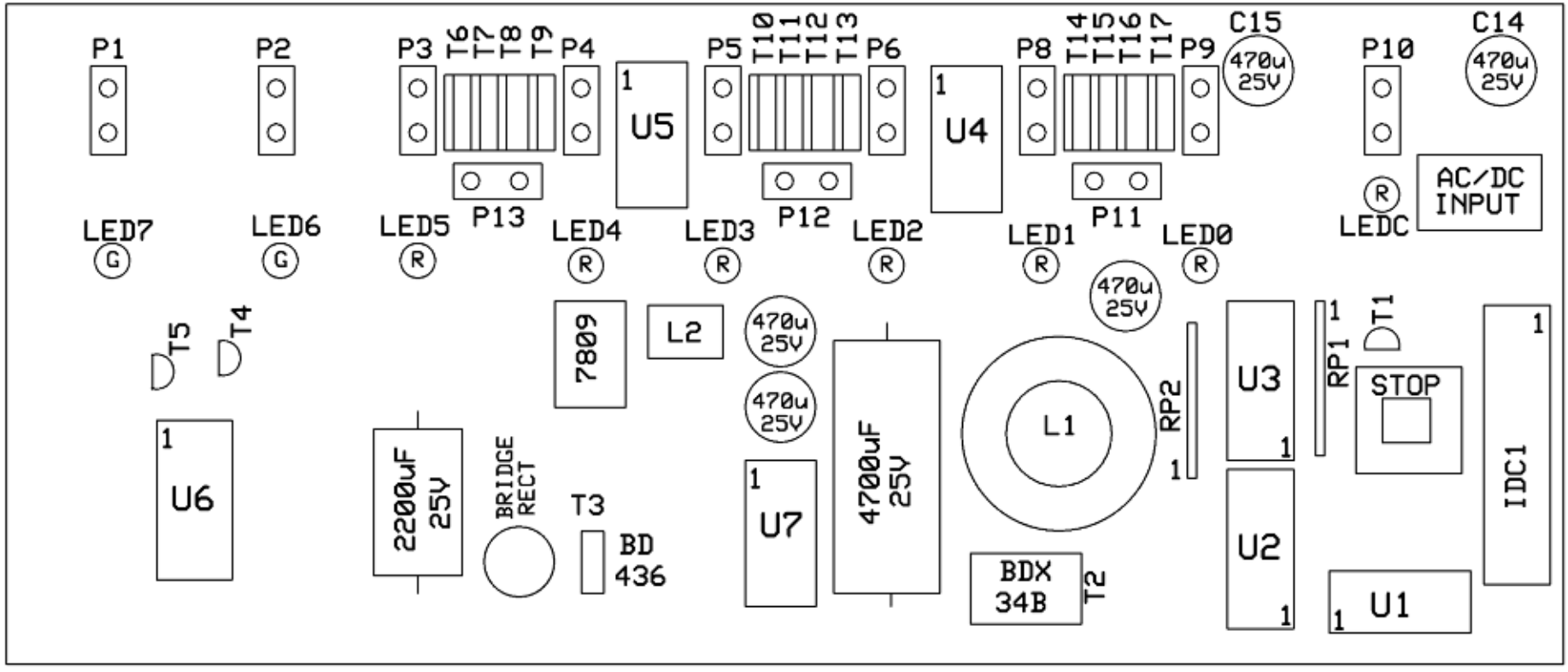

Component designations used where visible.
IC designations arbitrary

LEGO 70455 INTERFACE		
Major Component Locations		
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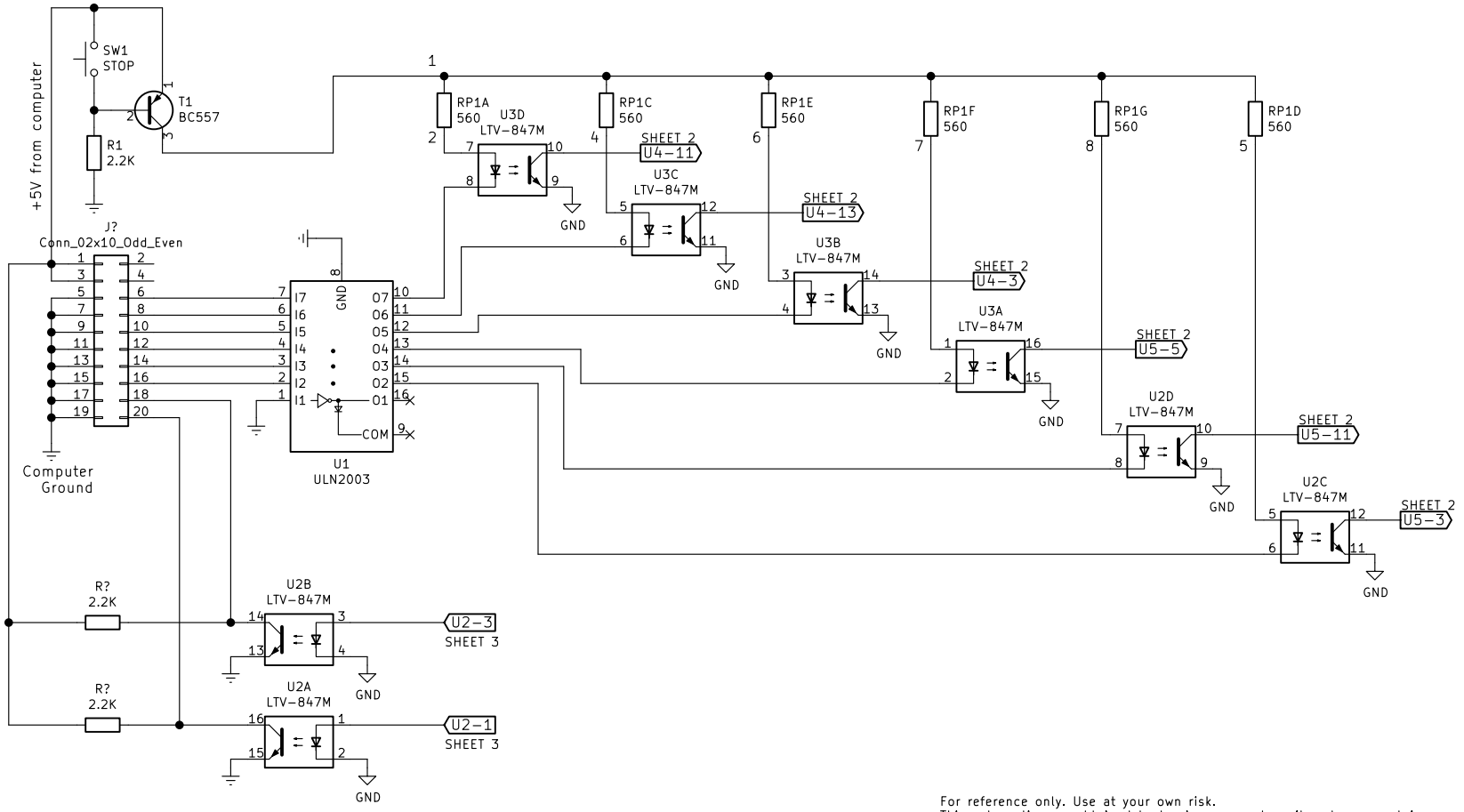

NOTE: Computer ground ⏚ and circuit ground ⏚ GND are separate.
Do NOT connect together.

For reference only. Use at your own risk.
This schematic was obtained by tracing a sample unit and may contain errors.
Component designations provided where visible.
U2, U3: Generic quad optocoupler, LTV-847 typical
T1: Generic PNP transistor; 2N3906, 2N3095, 2N2907, many others OK

LEGO 70455 INTERFACE COMPUTER I/O

1

Sheet: /
File: Lego1.sch

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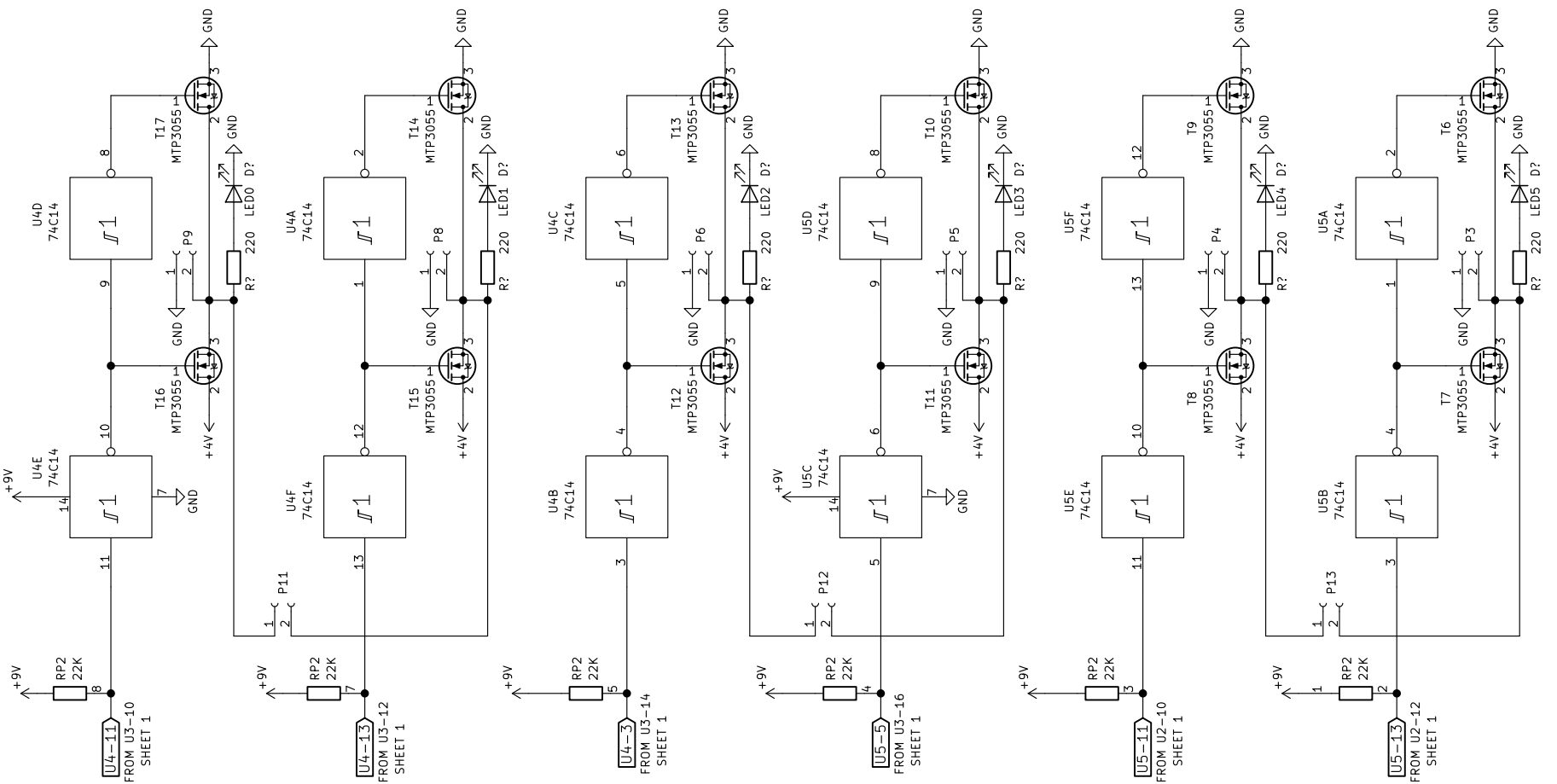
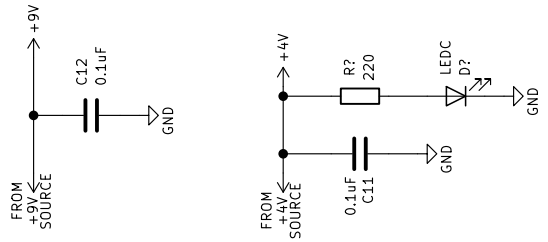
Title: LEGO 70455 INTERFACE

Size: A	Date: 2019-12-03	**Rev: 0**
KiCad E.D.A. eeschema (5.1.2)-1		Id: 1/1





For reference only. Use at your own risk.
This schematic was obtained by tracing a sample unit and may contain errors.
Component designations provided where visible.
T6–T17: Generic 60V 0.1ohm, 12A or better MOSFET
LEDC, LED0–LED7: Generic standard–brightness 5mm red LED

LEGO 70455 INTERFACE OUTPUT DRIVERS

2

Sheet: /
File: Lego2.sch

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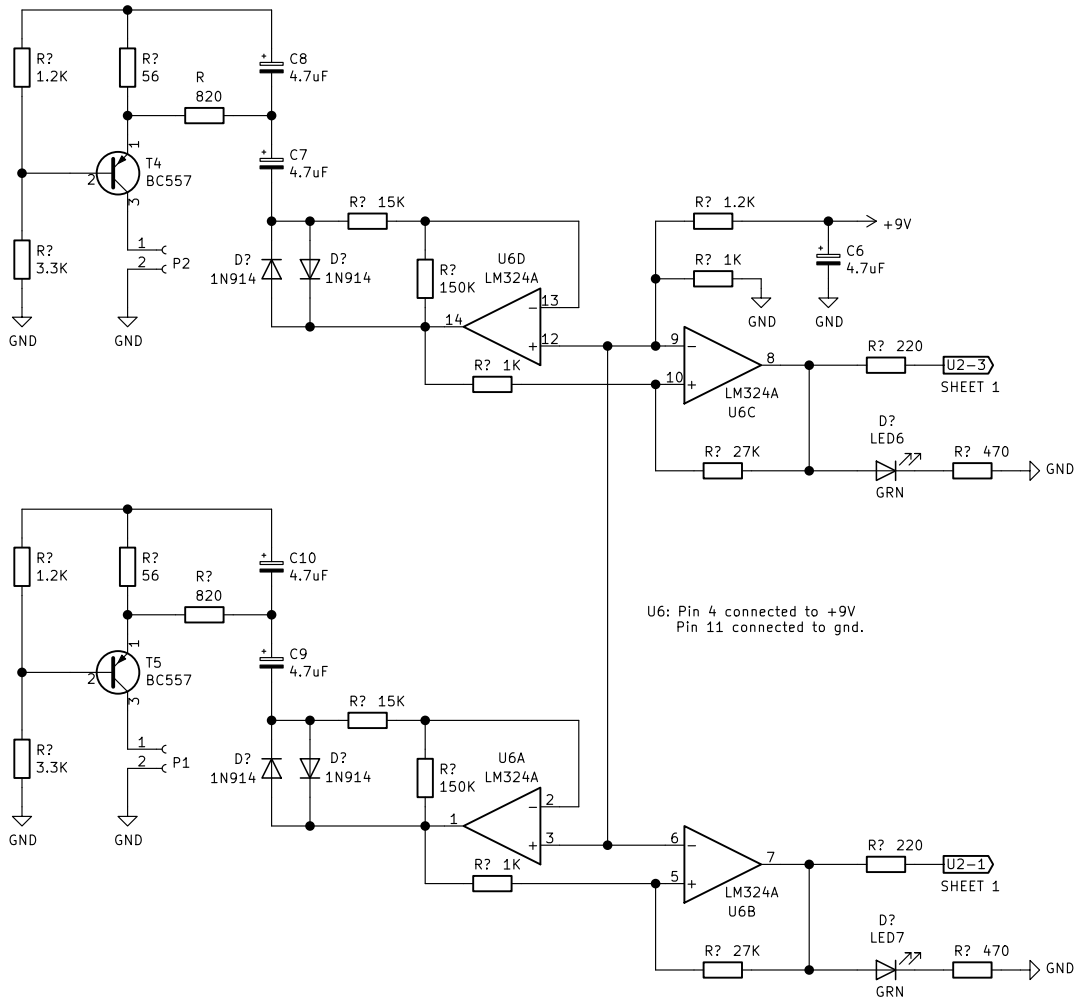
Title: LEGO 70455 INTERFACE

Size: A	Date: 2019-12-03	**Rev: 0**
KiCad E.D.A. eeschema (5.1.2)-1		Id: 1/1



For reference only. Use at your own risk.
This schematic was obtained by tracing a sample unit and may contain errors.
Component designations provided where visible.

LEGO 70455 INTERFACE INPUT CIRCUIT

3

Sheet: /
File: Lego3.sch

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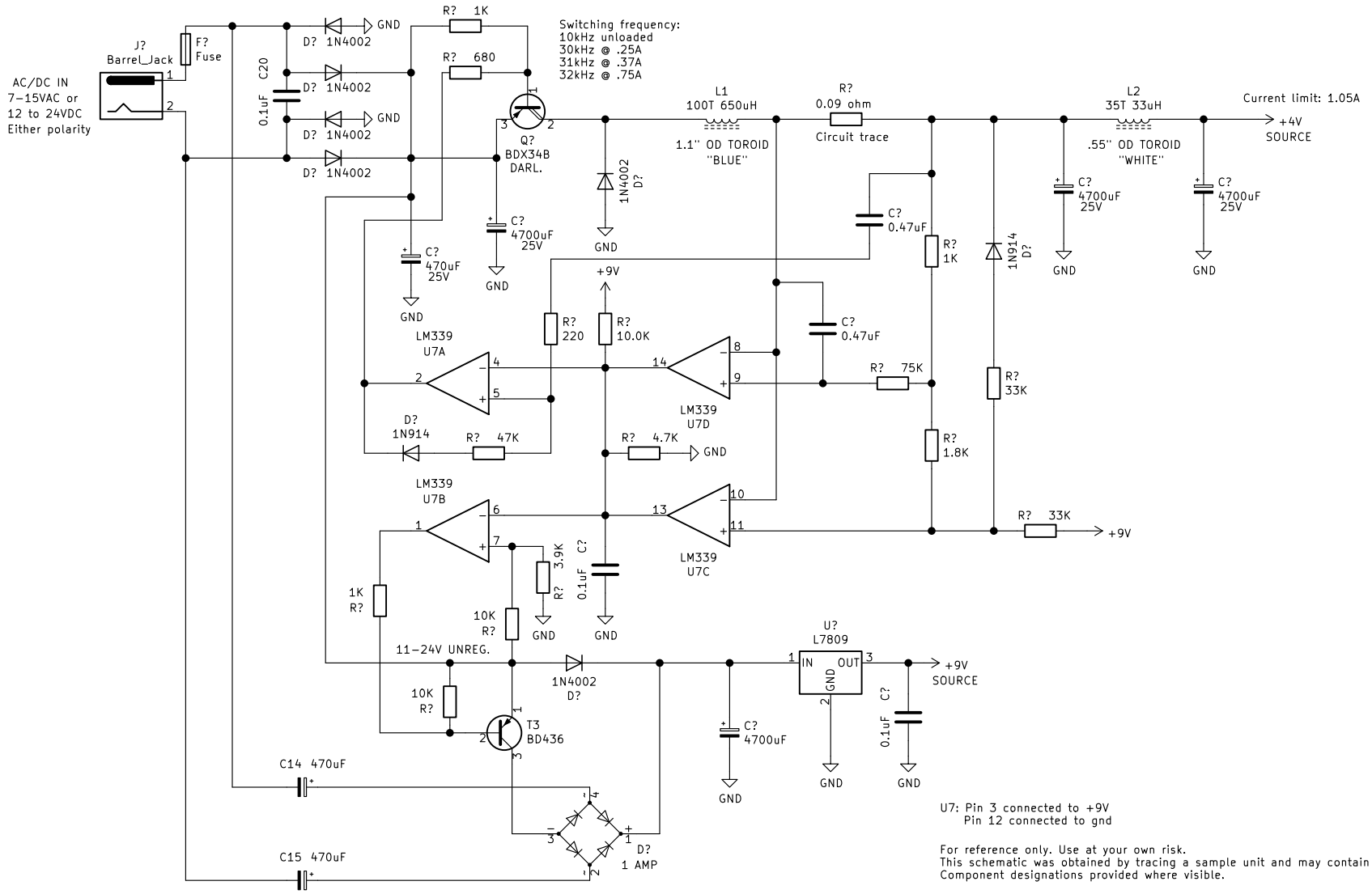
Title: LEGO 70455 INTERFACE

Size: A	Date: 2019-12-03	**Rev: 0**
KiCad E.D.A. eeschema (5.1.2)-1		Id: 1/1



LEGO 70455 INTERFACE POWER SUPPLY

4

Sheet: /
File: Lego4.sch

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Title: LEGO 70455 INTERFACE

Size: A	Date: 2019-12-03	**Rev: 0**
KiCad E.D.A. kicad (5.1.2)-1		Id: 1/1